

## **NANO-POROUS FIBERS AND PROTEIN MEMBRANES**

### **ABSTRACT OF THE DISCLOSURE**

The present invention provides nano-porous fibers and protein membrane compositions. In certain embodiments, continuous fiber compositions are provided having nanometer sized diameters and surface pores. In another embodiment, a protein membrane composition is provided comprising a protein; and a polymer, wherein the protein and the polymer are electrospun to form a protein membrane composition. In certain instance, the protein is covalently bound to the fiber.

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